Past Colloquium Speakers

2007/2008

Alain Herve
"Experience Gained from the Construction, Test, and Operation of the Large 4-Tesla Superconducting Coil for the CMS Experiment at CERN"
Former Technical Coordinator of the CMS Experiment, CERN, Geneva, Switzerland

Erik Winfree
"Programming the DNA World"
Associate Professor, California Institute of Technology, Computer Science & Computation and Neural science, Pasadena, CA

John Sheffield
"What About Fusion Reactors?"
Senior Fellow, University of Tennessee, Institute for a Secure and Sustainable Environment, Knoxville, TN

Ian Dobson
"Cascading Failure, the Risk of Large Blackouts, Criticality, and Self-Organization"
Professor, University of Wisconsin Madison, Department of Electrical & Computer Engineering, Madison, WI

Edward W. Felten
"Electronic Voting: Danger and Opportunity"
Professor, Princeton University, Computer Science and Public Affairs

Sergey Macheret
"Weakly Ionized Plasmas for Aerospace Applications"
Senior Staff Aeronautical Engineer, Revolutionary Technology Programs, Lockheed Martin, Palmdale, CA

Stewart Prager
"The Reversed Field Pinch: Progress from Fusion to Astrophysics"
Professor, University of Wisconsin Madison, Department of Physics, Madison, WI

Peter Barker
"Controlling the Motion of Atoms and Molecules with Intense Optical Fields"
Professor, Department of Physics and Astronomy, University College – London, U.K.

Michael A. Liebreman
"Nanoelectronics and Plasma Processing—the Next Fifteen Years and Beyond"
Professor, University of California Berkeley, Department of Engineering & Computer Science, Berkeley, CA

Frank J. Owens
"Carbon Nanotube Polymer and Metal Composites"
Senior Research Physicist, Army Armament Research, Development and Engineering Center, Picatinny, NJ

Past Colloquium Speakers

Joel Fajans
"Antimatter Plasmas and Antihydrogen Production and Trapping"
Professor, University of California, Berkeley, Department of Physics, Berkeley, CA

Brian W. Kernighan
"Millions, Billions, Zillions: Why (In)numeracy Matters"
Professor, Princeton University, Computer Sciences Department, Princeton, NJ

Taik Soo Hahm
"Recent Progress in Understanding Tokamak Core Turbulence and Transport"
Principal Research Physicist, Princeton Plasma Physics Laboratory, Princeton, NJ

Peter Frumhoff
"Confronting Climate Change in New Jersey and the Northeast: Science, Impacts and Solutions"
Director of Science and Policy & Chief Climate Scientist, Union of Concerned Scientists, Cambridge, MA

Frank von Hippel
"A Global Cleanout of Nuclear-weapon Materials"
Professor, Princeton University, Public and International Affairs, Woodrow Wilson School, Princeton, NJ

Mark J. Kushner
"Achieving Selectivity in Plasma Material Processing: Addressing the Physics While Still Making a Profit."
Professor and Dean, Iowa State University, College of Engineering, Ames, IA

Masaaki Yamada, Principal Research Physicist
Russell Kulsrud, Professor Emeritus
"Magnetic Reconnection: Recent Progress in Theory and Experiment"
Princeton Plasma Physics Laboratory and Princeton University, Astrophysical Sciences Department, Princeton, NJ

Dennis Whyte
"The Challenges of Plasma-surface Interactions for ITER and Beyond"
Professor, Massachusetts Institute of Technology, Plasma Science & Fusion Center, Cambridge, MA

Karl M. Krushelnick
"Magnetic Fields in High Intensity-Laser Produced Plasmas"
Professor, University of Michigan, Center for Ultrafast Optical Science (CUOS), Ann Arbor, MI

Iain Couzin
"Collective Motion and Decision-Making in Animal Groups"
Professor, Princeton University, Department of Ecology & Evolutionary Biology, Princeton, NJ

Past Colloquium Speakers

Lev Tsendin
"Electron Kinetics in Glows"
Professor, St. Petersburg State Polytechnical University, Russia

Barry C. Barish
"The Global Design Effort for the International Linear Collider"
Professor Emeritus, California Institute of Technology, LIGO Laboratory, Pasadena, CA

Francis F. Chen
"The Complicated Physics of Helicon"
Professor Emeritus, University of California, Los Angeles, Electrical Engineering Department, Los Angeles, CA

Laura Cadonati
"LIGO: A Journey Towards Gravitational Wave Astronomy"
Assistant Professor, University of Massachusetts, Physics Department, Amherst, MA

Dr. Linn F. Mollenauer,
"Solitons in Optical Fibers for Telecommunications"
Retired, Bell Telephone Laboratories, Lucent Technologies

Sergei Krasheninnikov
"Dust in Magnetic Fusion"
Professor, University of California, San Diego, Mechanical & Aerospace Engineering Department, San Diego, CA

Earl Marmar
"Alcator C-Mod—Recent Results and Near-term Plans"
Senior Research Scientist, Massachusetts Institute of Technology, Plasma Science and Fusion Center, Cambridge, MA

Victor Malka
"Principle and Applications of Electron Beams PRoduced with Laser Plasma Accelerators"
Research Director, CNRS, Paris, France

B. Grant Logan
"Heavy Ion Direct Drive"
Program Head, Acclerator Fusion Research Division, Lawrence Berkeley National Laboratory, Berkeley, CA

Tullis C. Onstott
"The Search for Dark Life in the Universe"
Professor, Princeton University, Department of Geosciences, Princeton, NJ

2006/2007

David N. Spergel
"The Universe's Baby Picture"
Professor & Chair, Astrophysical Sciences Dept., Princeton University, Princeton, NJ

Past Colloquium Speakers

Michael Zarnstorff
"NCSX Research Challenges and Opportunities"
Principal Research Physicist, Princeton Plasma Physics Laboratory, Princeton, NJ

Roger D. Nelson
"The Global Consciousness Project: Meaningful Patterns in Random Data"
Director, Global Consciousness Project, Princeton, NJ

Naomi Ehrich Leonard
"Cooperative Control and Mobile Sensor Networks"
Mechanical and Aerospace Engineering Dept., Princeton University, Princeton, NJ

Michael Oppenheimer
"How Warm is Too Warm? Global Warming, Sea Level Rise, and the Future of the Polar Ice Sheets"
Albert G. Milbank Professor of Geosciences and International Affairs, Woodrow Wilson School, Princeton University, Princeton, NJ

Peter A. Rona
"Imaging and Quantifying Black Smoker and Diffuse Flow from Seafloor Hydrothermal Fields"
Professor of Marine Geology and Geophysics, Institute of Marine and Coastal Sciences, Rutgers University, New Brunswick, NJ

John Sethian
"Fusion Energy, Based on Lasers and Direct Drive Targets"
Physicist, Naval Research Laboratory, Washington, DC

Ronald D. Henderson
"Animating Physics"
Software Development Manager, Research and Development, DreamWorks Animation, Glendale, CA

John B. Bell
"Simulation of Lean Premixed Turbulent Combustion"
Center for Computational Sciences and Engineering, Lawrence Berkeley National Laboratory, Berkeley, CA

Emily A. Carter
"Origins of Failure in Thermal Barrier Coatings from First Principles"
Professor, Mechanical and Aerospace Engineering and Program in Applied and Computational Mathematics, Princeton University, Princeton, NJ

Hartmut Zohm
"Over of the ASDEX Upgrade Tokamak Programme"
Professor, Max-Planck-Institute for Plasma Physics (IPP), ERATOM Assocation, Garching, Germany

Past Colloquium Speakers

Dr. C. Z. (Frank) Cheng
"Space Science Program in Taiwan"
Plasma and Space Science Center, National Cheng-Kung University, Taiwan and National Space Organization, Taiwan, Republic of China

Dr. Michael A. Isnardi
"Digital Television and Media Innovations"
Distinguished Member, Technical Staff, Sarnoff Corporation, Princeton, NJ

Mordeai-Mark Mac Low
Magnetohydrodynamical Turbulence in Star and Planet Formation"
Associate Curator and Chair, Department of Astrophysics, American Museum of Natural History, New York, NY

Yannis G. Kevrekidis
"Equation-free Modeling for Complex/Multiscale Systems"
Professor, Department of Chemical Engineering and PACM, Princeton University, Princeton, NJ

Jiangang Li
"Present Research Activities and Future Plan of MCF in ASIPP"
Director, Institute of Plasma Physics, Chinese Academy of Sciences, China

Baonian Wan
"Recent Progress of HT-7 and EAST"
Deputy Director, Institute of Plasma Physics, Chinese Academy of Sciences, China

Robert J. Goldston, Director
Jonathan E. Menard, Principal Research Physicist
"The Path to Magnetic Fusion Energy: Crossing the Next Frontier"
Princeton Plasma Physics Laboratory, Princeton, NJ

Anatoly Spitkovsky
"How Collisionless Shocks Work (and How They Don't"
Professor, Department of Astrophysical Sciences, Princeton University, Princeton, NJ

Leonid E. Zakharov
"3-Step Program Toward a Reactor Development Facility"
Principal Research Physicist, Princeton Plasma Physics Laboratory, Princeton, NJ

Lisa P. Jackson
"Energy and Climate Change-- Planning New Jersey's Future"
Commissioner, New Jersey Department of Environmental Protection, Trenton, NJ

Charles S. Peskin
"A Different Kind of Plasma: Mechanics and Electrophysiology of the Heart by the Immersed Boundary Method"
Professor, Courant Institute of Mathematical Sciences, New York University, New York, NY

Past Colloquium Speakers

Jeffrey N. Brooks
"Plasma/Material Interaction Issues for Fusion-Implications for Material Choices"
Senior Engineer, Argonne National Laboratory, Argonne, IL

Hantao Ji, Principal Research Physicist, Princeton Plasma Physics Laboratory
Jeremy Goodman, Professor, Princeton University, Astrophysical Sciences Department
"Angular Momentum Transport in Astrophysical Disks and Laboratory Flow"

Jeffrey Saltzman
"Applied Mathematics in the Pharmaceutical Industry"
Senior Director, Applied Computer Sciences and Mathematics, Merck Research Laboratory, Rahway, NJ

Thomas Brabec
"Correlated Electron Dynamics in Intense Fields: From Attoscience to Nanoplasmas"
Professor, Physics Department & Center for Research in Photonics, University of Ottawa, Canada

Tamas I. Gombosi
"Computer Simulations of Severe Weather in Space"
Professor and Chair, Department of Atmospheric, Oceanic, and Space Sciences, University of Michigan, Ann Arbor, MI

2005/2006

Thomas A. Gardner, Jr.
"Methane Hydrates: Energy Source for the Hydrogen Economy?"
Director, Science & Technology, Raytheon Technical Services Company

Steven A. Balbus
"Problems, Prospects, and Progress in Magnetized Accretion"
Ecole Normale Superieure, Paris, France

Joseph R. Dwyer
"X-ray Emissions from Thunderstorms and Lightning Produced by Runaway Air Breakdown"
Florida Institute of Technology, Melbourne, FL

Stuart L. Pimm
"Can We Sustain the Variety of Life on Earth?"
Duke Univeersity, Durham, NC

Alexis P. Malozmoff
"The New Generation of Superconductor Electric Power Equipment"
American Superconductor Corporation, Westborough, MA

Glenn D. Starkman
"Is the Universe Out of Tune?"
Case Western Reserve University, Cleveland, OH

Past Colloquium Speakers

David J. Bottjer
"Exploring the Early Evolution of Animals"
University of Southern California, Los Angeles, CA

David E. Keyes
"Petaflops, Seriously"
Columbia University, New York, NY

Kerry A. Emanuel
"Hurricanes and Climate"
Massachusetts Institute of Technology, Cambridge, MA

Michael E. Mann
"Climate Over the Past Millennium"
Penn State University, University Park, PA

Katherine P. Prestridge
"The Evolution of Code Validation Experiments"
Los Alamos National Laboratory, Los Alamos, NM

Michael A. Celia
"Geological Storage of CO_2: Analysis and Modeling of Leakage Potential"
Princeton University
Gennady Shvets
"Through a Glass, Brightly: Sub-wavelength Imaging Using Meta-materials"
University of Texas at Austin, Austin, TX

Steven J. Stuart
"Sputtering of Amorphous Carbon Surfaces by Deuterium"
Clemson University, Clemson, SC

Joseph E. Shepherd
"Explosive Propulsion and Detonations"
California Institute of Technology, Pasadena, CA

Bruce Balick
"Collimating Stellar Winds"
University of Washington, Seattle, WA

Jonathan I. Lunine
"Titan One Year After Huygens"
University of Arizona, Tucson, AZ

Patrick H. Diamond
"The Great Shear Layer in the Sky – The Solar Tachocline"
University of California, San Diego

Derek B. Fox
"The Nature of Short-Hard Gamma-Ray Bursts"
Penn State University, University Park, PA

Past Colloquium Speakers

Wei-Li (William) Lee
"Kinetic Simulations of Fusion Plasmas and the SciDAC Challenge"
Princeton Plasma Physics Laboratory

Francis W. (Rip) Perkins
"Physics of Fuelling Tokamak Reactors"
General Atomics, San Diego, CA

2004/2005

Ned Sauthoff
"An Overview of the U.S. ITER Project Activities"
Princeton Plasma Physics Laboratory

Dr. David Rabinowitz
"The Detection of the Distant Planet Sedna—Instrumentations and Implications"
Physics Department
Yale University

Colin J. McKinstrie
"Recent Progress in Optical Parametric Amplification"
Bell Laboratories, Lucent Technology, Murray Hill, NJ

Josefino C. Comiso
"Warming Signals in the Arctic From Satellite Observations"
NASA Goddard Space Flight Center

Robert W. Nelson
"Nuclear Bunker Busters, Mini-Nukes, and the Future of the U.S. Nuclear Stockpile"
Program on Science and Global Security
Princeton University

John A. Krommes
"Selected Advances in the Theoretical Foundations of Magnetically Confined Plasma Physics: A Historical Survey"
Princeton University (PPPL)

Sergei Putvinskii
"Plasma Mass Filter for Separation of Nuclear Waste"
Archimedes Technology Group, San Diego, CA

Sam Cohen
"Measurements on Plasmas Expanding Along Field Gradients"
Princeton Plasma Physics Laboratory

Michael Paluszek
"Interplanetary Missions Propulsion Options"
President of Princeton Satellite Systems

Past Colloquium Speakers

Maria M. Klawe
"Engineering for a Better World: The Princeton Vision"
Princeton University
Department of Engineering and Applied Science

Michael Romalis
"Recent Tests of Lorentz Invariance"
Department of Physics
Princeton University

Edward W. Felten
"Rip, Mix, Burn, Sue: Technology, Politics, and the Fight to Control Digital Media"
Department of Computer Sciences
Princeton University

Graeme G. Lister
Senior Scientist
"Recent Research on Low Pressure Discharge Light Sources"
Osram Sylvania

David J. Bishop
Nanotechnology Research Vice President and President of NJNC
"Nanotechnologies for the Terabit Communications Network"
Bell Laboratory, Lucent Technology, Murray Hill, NJ

Martin Harwit
"The Growth of Understanding in Astrophysics"
Emeritus Professor of Astronomy
Cornell University

John A. Nees
"Relativistic Optics in the Lambda-Cubed Regime: Lasers and Applications"
Center for Ultrafast Optical Science
University of Michigan

Philip Bucksbaum
"Ultrafast X-ray Science"
FOCUS Center
University of Michigan

Saul Perlmutter
"Stalking Dark Energy: Supernovae, the Accelerating Universe, and More"
Lawrence Berkeley National Laboratory, University of California, Berkeley, CA

John A. Goree
"Dusty Plasmas in Basic Science, Astronomy, Industry and Fusion"
Physics and Astronomy Department
The University of Iowa

Past Colloquium Speakers

Gordon D. Cates, Jr.
"New Insights from JLab on the Nucleon as a 'QCD Atom' and Spin-offs that Benefit Medicine and Biological Physics"
Department of Physics
University of Virginia

Ian Hutchinson
"The Nuclear Renaissance"
Department of Nuclear Science and Engineering
Massachusetts Institute of Technology

Jay B. Benziger
"Polymer electrolyte Membrane Fuel Cell Reactors"
Department of Chemical Engineering
Princeton University

John Lindl
"Recent Advances in Indirect Drive Target Designs for Ignition on NIF"
DOE/Lawrence Livermore National Laboratory

Alfred J. Cavallo
"The Beginning of the End of Cheap Oil"
U.S. Department of Homeland Security
Environmental Measurements Laboratory

Miklos Gyulassy
"Inertial De-confinement of Strongly Coupled Quark-Gluon Plasmas at RHIC"
Physics Department
Columbia University

2003/2004

Dean Astumian
Department of Physics and Astronomy
University of Maine

Fran Bagenal
University of Colorado, Boulder

J. E. Bailey
Sandia National Laboratories

Jonathan Cohen
University of Pittsburgh

Masaki Fujimoto
Tokyo Institute of Technology

Makoto Fujiwara
Atomic Physics Laboratory, RIKEN

Past Colloquium Speakers

S. Glenzer
Lawrence Livermore National Laboratory

David Hafemeister
California Polytechnic University

Ralph Izzo
Public Service Electric and Gas

Deepak Kapur
University of New Mexico

Tony Mezzacappa
Oak Ridge National Laboratory

Howard Michlberg
University of Maryland

John Pollock
University of Arizona

H. Vincent Poor
Princeton University

John Reynders
Celera Informatics

Robert Shaler
NYC Medical Examiners Office

Mark Raizen
University Texas at Austin

Robert Socolow
Princeton University

Wesley Traub
Harvard University

Don Umstadter
University of Michigan

Arthur Weller
Max-Planck Institute

Past Colloquium Speakers

2002/2003

Prof. Robert J. Goldston
PPPL

Dr. Keith Baker
Hampton University

Martin Elvis
Harvard-Smithsonian Center for Astrophysics

Dr. Dale Meade
PPPL

Dr. David Sheinberg
Dept of Neuroscience
Brown University

Dr. E. J. Synakowski
PPPL

Dr. Frederik Nebeker
IEEE History Center
Rutgers University

Dr. Cliff Surko
University of California, San Diego

Dr. Peter Goldreich
CIT

Dr. Roger Blandford
Caltech

Dr. William Lotko
Thayer School of Engineering
Dartmouth College

Dr. Tetsuya Sato
Earth Simulator Center
Yokohama, Japan

Prof. Paul Bellan
CIT

Professor Peter Olsen
Johns Hopkins University

Doug McCune
PPPL

Past Colloquium Speakers

Dr. Mitsuru Kikuchi
Naka

Professor Brian Kernighan
Dept. of Computer Science
Princeton University

Dr. Christine M. Celata
Lawrence Berkeley National Laboratory

Dr. Robert Lin
University of California, Berkeley

Dr. W. T. Shmayda
University of Rochester

Dr. Suzanne T. Staggs
Princeton University

Dr. Mike Ulrickson
Sandia National Labortories

Dr. Chris Keane
U. S. Department of Energy

Prof K. Krushelnick
Dept of Physics
Imperial College
University of London

Alan Title
Lockheed martin Solar & Astrophysics Laboratory
And Stanford University

Prof Alan Guth
MIT

Prof. Mark Nelson
University of Illinois, Urbana-Champaign

2001/2002

Dr. Brian Lloyd
"Physics Progress on MAST"
EURATOM/UKAEA Fusion Association

Dr. Nicolas Berkis
"Tritium Retention and Removal in First Wall Materials"
Karlsruhe, Germany

Past Colloquium Speakers

Dr. Andrew Bocarsly
"PEM Fuel Cells, Are we Ready for Them and are They Ready for Us"
Princeton University

Dr. Peter Beirsdorf
"Laboratory Simulation of the X-Ray Emission from Comets"
LLNL

Dr. Jim Lyon
"Overview of the ORNL QPS Compact Stellarator Experiment"
ORNL

Dr. Edward Seidel
"Using Supercomputers to Collapse Gravitational Waves, Collide Black Holes (and study other cataclysms)"
Max-Planck

Roman Czujko
"Minorities in Physics, Astronomy and Geosciences. Has there been an progress in the Last 30 Years?"
AIP Statistical Research Center

Dr. William Tang
"Advanced Computations in Plasma Physics"
PPPL

Dr. Jason Redi
"The Future of Wireless Communications"
BBN Technologies, A Verizon Company

Dr. Monty Denne
"Blue Gene"
IBM Watson Research Center

Dr. Alice E. White
"Integrated Optical Components for the 21st Century"
Bell Labotratories, Lucent Technologies

Dr. Kennedy Reed
"The LLNL Research Collaborations Program for HBCUs and Mis"
LLNL research Collaborations Program

Dr. Leon Lederman
"21st Century High School"
Illinois Mathematics and Science Academy

Professor Oleg Kalugin
"Intelligence and Counterintelligence"
Center for Counterintelligence and Security Studies

Past Colloquium Speakers

Dr. Edward Cheng
"Prospects for Fusion Based Actinide Transmutation"
TSI Research, Inc.

Dr. Andrew C. kadak
"Politically Correct Nuclear Reactor"
MIT

Professor Chiara R. Nappi
"String Theory and Space-Time"
Princeton University

Dr. Robert Harrison
"A Multidisciplinary Approach to Computational Chemistry"
PNNL

Steven J. Zinkle
"Overview of Scientific and Engineering Advances in Fusion Materials"
ORNL

Dr. Edward Thomas, Jr.
"Dusty Plasmas – A New Sandbox for Plasma Physics"
Auburn University

Dr. Syukuro Manabe
"Global Warming and Water Resources"
Princeton University

2000/2001

Prof. F. Romanelli
"Improved Confinement Regimes in High Density, High Magnetic Field Operation on the Frascati Tokamak Upgrage (FTU)"
Assoc. EURATOM-ENEA sulla Fusione, Frascati, Roma, Italy

Dr. Kimberly S. Budil
"The CAWMSET Report"
A Framework for Change
LLNL

John Seithian
"Fusion Energy with KrF Lasers"
Plasma Physics Division, Naval Research Laboratory

Dr. P. Stangeby
"Interpretive Modeling of DIII-D Edge Measurements Using the Oedge Code"
General Atomics

Past Colloquium Speakers

Dr. D. J. Campbell
"The International Thermonuclear Experimental Reactor"
European Fusion Development Agreement Close Support Unit-Garching

Dr. Don Steiner
"A Brief History of Fusion Power Plant Design"
Rensselaer Polytechnic Institute, Troy NY

Dr. Alfred Wong
"Ion Accelerator"
UCLA

Prof. Robert Socolow
"Managing Carbon in a Greenhouse-Constrained World"
Princeton University

Dr. Martin Peng
"Exciting Results From NSTX and What Could They Mean"
NSTX Program Director

Dr. Amitava Bhattacharjee
"Magnetic Reconnection: From Fusion to Astrophysics"
University of Iowa

Dr. T. E. Mason
"The Spallation Neutron Source: A Powerful Tool for materials Research"
Spallation Neutron Source, Oak Ridge, TN

Dr. D. L. Hysell
"Investatiing Ionospheric Plasma Irregularities and Instabilities with Coherent Scatter Radars"
Clemson University

Prof. Robert Rosner
"Mixing Things Up in Astrophysics"
University of Chicago

Dr. William P. Blair
"Science and Operations with the Fuse Satellite"
Johns Hopkins University

Dr. Rick Spielman
"New Research Capabilities in Inertial Confinement Fusion and High Energy Density Physics Using Plused Power"
Sandia National Laboratories

Dr. Tom H. Dunning, Jr.
"Advancing Scientific Discovery Through Advanced Computing Scientific Computing in the 21st Century"
DOE

Past Colloquium Speakers

Dr. Hutch Neilson
"Compact Stellarator Research"
PPPL

Mr. John Spitzer
"Science and Golf"
United States Golf Association

Dr. Paul LaMarche
"The Borexino Project: Studying the Sun From Underground, Herding Cats and Other Blatant Inconsistencies"
PPPL and Princeton University

Dr. L. J. Wang
"Transparent Anomalous Dispersion and negative Group Velocity"
NEC Research Institute

Dr. Joan Ogden
"Toward A Zero Emission Transportation System"
Princeton University

Dr. (Frank) C. Z. Cheng
"Solar Flares"
PPPL

Dr. Francis W. Perkins
"Reactor-Scale Physics Inaccessible to Contemporary Facilities"
PPPL (on assignment at GA)

Dr. Pat Colestock
"An Overview of Accelerator Based Nuclear Waste Transmutation and the Issue of Beam Halo in Intense Proton Beams"
Los Alamos National Laboratory

Dr. Akio Ishida
"Generalized Helicity in a Flowing Two-Fluid Plasma"
Niigata University, Department of Environmental Science

1999/2000

Prof. Nishida
"Physics of the Earth's Magnetotail"
Inst. Of Space & Aeronautical Science, Tokyo

Prof. Amanda Hubbard
"H-Mode Pedestal Physics on Alcator C-Mod"
MIT Plasma Science and Fusion Center

Past Colloquium Speakers

Dr. H. Muntau
"High Field Magnets and Magnet Materials: Recent Accomplishments at the NHMFL"
Florida State University, Tallahassee

W. R. Wampler
"Physical Processes of Fusion Plasma Material Interactions"
Radiation-Solid Interactions Department
Sandia National Laboratories

Mr. Tom Minton
"Cyber Security"
The National Infrastructure Protection Center and the Infragard Outreach Program
Federal Bureau of Investigation (FBI)

Dr. Dale Meade
"Fusion Ignition Research Experiment, A Next Step Option for Magnetic Fusion"
PPPL

Prof. G. S. Lee
"The KSTAR Project: Advanced Steady-State Superconducting Tokamak Experiment"
National Fusion R&D Center
Korean Basic Science Institute

Dr. Swarn S. Kalsi
"Applications of High Temerature Superconductors to Electric Power Devices and Magnets"
EMG Business Unit-American Superconductor
Westborough, MA

Dr. Robert H. Williams
"Decarbonization/CO^2 Sequestration Strategies for Fossil Fuels in a Greenhuse Gas Emissions Constrained World"
Center for Energy & Environmental Studies
Princeton University

Prof. S. J. Gates
"Einsteins Dream at the End of the Millennium"
University of Maryland

Dr. Jocelyn Bell Burnell
"Cygnus X-3; A Conundrum and a Can of Worms"
Physics Department
Princeton, University

Prof. David D. Meyerhofer
"The Physics of Direct Drive Intertial Confinement Fusion"
University of Rochester

Past Colloquium Speakers

Dr. Ernesto Mazzucato
"Transport and Turbulent Fluctuations in Tokamaks"
PPPL

1998/1999

Dr. Ady Hershcovitch
"A Plasma Window for Transmission of Particles and Radiation From Vacuum to Atmosphere for Various Applications"
Brookhaven National Laboratory

Dr. Drew Shindell
"Connections Between the Stratosphere and Climate Change"
NASA Goddard Institute for Space Studies and Columbia University

Prof. Frank N. von Hippel
"Taking Nuclear Weapons Off Hair Trigger Alert"
Woodrow Wilson School of Public and International Affairs, Princeton University

Prof. Stephen W. Pacala
"A Large Terrestrial Carbon Sink in North America Implied by Atmospheric and Oceanic CO2 Data and Models"
Princeton University
Department of Ecology and Evolutionary Biology

Dr. Hal Weaver
"A Golden Age of Cometary Research"
Johns Hopkins University

Dr. Alan Sykes
"Spherical Tokamak Experiments at Culham"
EURATOM/UKAEA
Fusion Associates, Culham Science Centre

Prof. Richard Lovelace
"Magnetohydrodynamic Origin of JETS from Accretion Disks"
Dept of Astronomy Cornell University

Dr. John C. Wooley
"Next Generation Biology The Needs for Next Generation Computing"
U. S. Department of Energy

Professor Steven Block
"Using Optical Tweezers to Study Biological Motors"
Department of Molecular Biology and Princeton Materials Institute
Princeton University

Dr. Predhiman Kaw
"Fusion Energy: The Need and the Prospects"
Institute for Plasma Research, India

Past Colloquium Speakers

Prof. Tom Lewis
"Empire of the Air: The Men Who Made Radio"
Skidmore College